

ENGLISH COUNTERPART FOR 2000JP-0185356

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SOURCES:

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Last database update : 2005/09/29 (YYYY/MM/DD)

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For information on content, (..)INFO INPD.

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US Patents Full Text of United States Patent and Trademark Office
Coverage : 1971 to present (2005-39/UP)
Last database update : 2005/09/27 (YYYY/MM/DD)
For complete file information : see INFO USPAT
NEW 09/09/03 Kind Code for US Design patents from D to S1

Selected file: USAPPS

US Patent Applications full-text from USPTO (c) Questel.Orbit
Coverage: from beginning of Pre-Grant publication in March 2001
Reloaded: FactSheet on web. Pricing, see: INFO USAPPS
Last database update: 2005/09/29 (YYYY/MM/DD) 2005-39/UP

Selected file: IFIPAT

IFIPAT Claims/US Patents (c) IFI /CLAIMS(R) Patent Services
Thru PGP pd=2005-09-22 (2005-38/uap); Grant PD=2005-09-27 (2005-39/up)
Std Biblio thru PGP PD=2001-11(2002-11/uam);Grant PD=2005-01(2005-08/UM)
Chem Indxg thru PGP PD=2004-03(2005-07/uab);Grant PD=2005-06(2005-09/UB)
Reloaded 01/15/04 with Updated US Classes, & Business Terms(/BT)
From 06/04 forward questionable source data received from USPTO shows
PCT filing date, not date of national stage as app date for US patents
that entered via PCT route. IFI is investigating.

PATENT FAMILY

| # | Patent No. | Kind | Date | Applic.No. | Date |
|----|---------------|------|----------|----------------|----------|
| 1) | EP1168476 | A2 | 20020102 | 2001EP-0401611 | 20010619 |
| 2) | JP2002008689 | A | 20020111 | 2000JP-0185355 | 20000620 |
| 3) | JP2002008690 | A | 20020111 | 2000JP-0185356 | 20000620 |
| 4) | US20010053470 | A1 | 20011220 | 2001US-0885672 | 20010620 |
| | US6787255 | B2 | 20040907 | | |

Priority :
 2000JP-0185355 20000620
 2000JP-0185356 20000620

SEARCH RESULTS:

1 / 4 *PLUSPAT - ©QUESTEL-ORBIT*

Patent Number :
EP1168476 A2 20020102 [EP1168476]

Publication Stage :
(A2) Pub. Of applic. Without search report

Title :
(A2) Fuel cell power generating system and operation method

Other Title :
 (A2) Brennstoffzellenstromversorgungssystem und Betriebsverfahren
 (A2) Système de génération d'électricité au moyen de piles à combustible
 et méthode pour son fonctionnement

Patent Assignee :
(A2) KURITA WATER IND LTD (JP)

Inventor(s) :
(A2) MISUMI YOSHITERU (JP)

Intl Patent Class :
(A2) H01M-008/04

Language :
ENGLISH (ENG)

Application Nbr :
EP01401611 20010619 [2001EP-0401611]

Priority Details :
 JP2000185355 20000620 [2000JP-0185355]
 JP2000185356 20000620 [2000JP-0185356]

EPO ECLA Class :
H01M-008/04B4

Designated States :
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
 AL LT LV MK RO SI

Document Type :
Basic

Update Code :
2002-01

1 / 1 *LEGALI - ©EPO*

Patent Number :
EP1168476 A2 20020102 [EP1168476]

Application Number :
EP01401611 20010619 [2001EP-0401611]

Action Taken :
 20020102 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 BENANNTTE VERTRAGSSTAATEN
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20020102 EP/AX-A [+]
 EXTENSION OF THE EUROPEAN PATENT TO
 ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF
 AL;LT;LV;MK;RO;SI
Update Code :
 2003-22

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Patent Number :
 JP2002008689 A 20020111 [JP2002008689]
Publication Stage :
 (A) Doc. Laid open to publ. Inspec.
Title :
 (A) FUEL CELL POWER GENERATION SYSTEM AND ITS RUNNING METHOD
Patent Assignee :
 (A) KURITA WATER IND LTD
Patent Assignee :
 (A) KURITA WATER IND LTD
Inventor(s) :
 (A) MISUMI YOSHITERU
Intl Patent Class :
 (A) H01M-008/04
Application Nbr :
 JP2000185355 20000620 [2000JP-0185355]
Priority Details :
 JP2000185355 20000620 [2000JP-0185355]
Update Code :
 2002-07

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Patent Number :
 JP2002008690 A 20020111 [JP2002008690]
Publication Stage :
 (A) Doc. Laid open to publ. Inspec.
Title :
 (A) FUEL CELL POWER GENERATION SYSTEM AND ITS RUNNING METHOD
Patent Assignee :
 (A) KURITA WATER IND LTD
Patent Assignee :
 (A) KURITA WATER IND LTD
Inventor(s) :
 (A) MISUMI YOSHITERU
Intl Patent Class :
 (A) H01M-008/04
Application Nbr :
 JP2000185356 20000620 [2000JP-0185356]
Priority Details :
 JP2000185356 20000620 [2000JP-0185356]
Update Code :
 2002-07

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Patent Number :
 US2001053470 A1 20011220 [US20010053470]
Publication Stage :
 (A1) Utility Patent Application published on or after January 2, 2001

Title :
 (A1) Fuel cell power generating system and operation method
Patent Assignee :
 (A1) KURITA WATER IND LTD (JP)
Patent Assignee :
 Kurita Water Industries, Ltd, Tokyo [JP]
Inventor(s) :
 (A1) MISUMI YOSHITERU (JP)
Intl Patent Class :
 (A1) H01M-008/04
Patent Number 2 :
 US6787255 B2 20040907 [US6787255]
Publication Stage 2 :
 (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001
Title 2 :
 (B2) Fuel cell power generating system and operation method
Patent Assignee 2 :
 (B2) KURITA WATER IND LTD (JP)
Inventor 2 :
 (B2) MISUMI YOSHITERU (JP)
Intl Patent Class 2 :
 (B2) H01M-008/04
Application Nbr :
 US88567201 20010620 [2001US-0885672]
Priority Details :
 JP2000185355 20000620 [2000JP-0185355]
 JP2000185356 20000620 [2000JP-0185356]
EPO ECLA Class :
 H01M-008/04B4
US Patent Class :
 ORIGINAL (O) : 429013000; CROSS-REFERENCE (X) : 429025000 429026000
Document Type :
 Corresponding document
Update Code :
 2002-02

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Accession Nbr :
 2002-105728 [14]
Sec. Acc. CPI :
 C2002-032402
Sec. Acc. Non-CPI :
 N2002-078659
Title :
 Fuel cell power generating system includes fuel cell unit having coolant circulation system, water storage tank, water treatment system, heat exchanger, hot water storage tank, and condensed-water supply system
Derwent Classes :
 L03 X16
Patent Assignee :
 (KURK) KURITA WATER IND LTD
Inventor(s) :
 MISUMI Y
Nbr of Patents :
 5
Nbr of Countries :
 28
Patent Number :
 US20010053470 A1 20011220 DW2002-14 H01M-008/04 12p *
 AP: 2001US-0885672 20010620

EP1168476 A2 20020102 DW2002-14 Eng
 AP: 2001EP-0401611 20010619
 DSR: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR

JP2002008689 A 20020111 DW2002-19 7p
 AP: 2000JP-0185355 20000620

JP2002008690 A 20020111 DW2002-19 4p
 AP: 2000JP-0185356 20000620

US6787255 B2 20040907 DW2004-59 H01M-008/04
 AP: 2001US-0885672 20010620

Priority Details :

2000JP-0185356 20000620; 2000JP-0185355 20000620

IPC s :

H01M-008/04

Abstract :

US20010053470 A

NOVELTY - Fuel cell power generating system comprises a fuel cell unit (1) having a coolant circulation system, a water storage tank (2) for supplying water, a water treatment system (3) for purifying the supply water in the water storage tank and supplying the purified supply water, heat exchanger (4, 7) for water, a hot water storage tank (5), and a condensed-water supply system (6).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of operating a fuel cell power generating system comprising supplying the water storage tank with condensed water obtaining by condensing steam from the hot water in the hot water storage tank.

USE - As fuel cell power generating system.

ADVANTAGE - Can set low capacity of the water purifying equipment low, thus reducing the equipment cost and the operation cost and decreasing the space for this equipment.

DESCRIPTION OF DRAWING(S) - The figure shows a fuel cell generating system.

fuel cell unit 1

water storage tank 2

water treatment system 3

heat exchanger 4, 7

hot water storage tank 5

condensed-water supply system 6

condensed-water supply path 8 (Dwg.1/7)

Technology abstract :

TECHNOLOGY FOCUS

ELECTRICAL POWER AND ENERGY - Preferred Component: The heat exchanger is able to heat water by using heat generated when the fuel cell unit generates power. The condensed-water supply system has a heat exchanger for condensing steam from the hot water in the hot water storage tank by cooling that steam with auxiliary water to be supplied to the hot water storage tank and recovering the condensed water, and a condensed-water supply path (8) for supplying the condensed water recovered by the heat exchanger to the water storage tank. The hot water storage tank is provided inside with a partition for defining rooms in the hot water storage tank in such a way that the hot water heated by the heater is led into one of the rooms and steam from the hot water in that room is supplied to the condensed-water supply system.

Manual Codes :

CPI: L03-E04

EPI: X16-C X16-K

Update Basic :

2002-14

Update Basic (Monthly) :

2002-03
Update Equivalents :
2002-14; 2002-19; 2004-59
Update Equivalents (Monthly) :
2002-03; 2004-09

USPAT RECORD CONTAINING ADDITIONAL APPLICATION DETAILS

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Patent Number :

US6787255 B2 20040907

Title :

Fuel cell power generating system and operation method

Inventor(s) :

Misumi, Yoshiteru; Tokyo [JP]

Patent Assignee :

Kurita Water Industries, Ltd, Tokyo [JP]

Application Details :

US885672 20010620 [2001US-0885672]

Priority Details :

JP P2000-185355 20000620 [2000JP-0185355]

JP P2000-185356 20000620 [2000JP-0185356]

Document type :

INVENTION (UTILITY) PATENT (with Pre-Grant Publication)

File Segment :

Assigned to Foreign Company or Corporation

Original US Class :

429013000

Related US Class :

429025000 429026000

Int'l Patent Class Code :

H01M-008/04

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Patent Number :

US20010053470 A1 20011220

Title :

Fuel cell power generating system and operation method

Inventor Details :

Misumi, Yoshiteru; Tokyo, [JP]

Patent Assignee Details :

Kurita Water Industries, Ltd.; e., Tokyo, [JP]

File Segment :

Assigned to Foreign company or corporation

Application Number :

US885672 20010620 [2001US-0885672]

Priority Details :

JP P2000185355 20000620 [2000JP-0185355]

JP P2000185356 20000620 [2000JP-0185356]

Document type :

Utility Patent Application

U.S. Patent Classes :

ORIGINAL (O) : 429026000; CROSS-REFERENCE (X) : 429013000; 429024000

Int'l Patent Classes :

H01M-008/04